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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/520,841	03/08/2000	Eisuke Atsuimi	566.38303X00	2626
20457	7590	03/14/2003	EXAMINER	
ANTONELLI TERRY STOUT AND KRAUS SUITE 1800 1300 NORTH SEVENTEENTH STREET ARLINGTON, VA 22209			VOLPER, THOMAS E	
		ART UNIT	PAPER NUMBER	
		2697	9	
DATE MAILED: 03/14/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/520,841	ATSUUMI ET AL.
	Examiner Thomas Volper	Art Unit 2697

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
 - 4a) Of the above claim(s) 6 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,2,4 and 5 is/are rejected.
- 7) Claim(s) 3 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 18 May 2000 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) Interview Summary (PTO-413) Paper No(s) _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Fig. 9, reference sign 901. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 6 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim must refer back to the stated claims in the alternative only. See MPEP § 608.01(n). Accordingly, the claim has not been further treated on the merits.
4. Claim 3 objected to because of the following informalities: Claim 3 recites the limitation "signal RS/CD of said control line signals" in line 3. Although claim 1 recites "control line signals" in line 7, there is no previous mention of these signals containing a RS/CD signal. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 1, 2 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Noiri

- Regarding claim 1, Noiri discloses an ATM transmission system with subsystems A0 and A1 that includes a cell multiplexer/demultiplexer (20A) and control information processor circuit (30A). Subsystems B0 and B1 are comprised of these same elements and can communicate with A0 and A1 (col. 4, line 63 – col. 5, line 10). The cell multiplexer/ demultiplexers are adapted to multiplex user, or main, information and control information, both provided in the form of a cell (col. 5, lines 11-14).

- Regarding claim 2, see aforementioned rejection of claim 1. In addition, Fig. 4 shows the outputted multiframe, which represents the cell of the present application, which contains

control and user information. Also, Noiri discloses that the cell mux/demux is adapted to demultiplex received information into user, or main, information and control information (col. 5, lines 15-17).

- Regarding claim 5, see aforementioned rejection of claim 2. The cell multiplexer/demultiplexers are capable of multiplexing the user data and control data, as well as separating, or demultiplexing, the user data and control data.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Noiri as applied to claims 1, 2 and 5 above, and further in view of Nakao.

- Regarding claim 4, Noiri discloses all of the limitations except that the system can operate in two modes, one for control line signal information and one for plain data communication. Nakao discloses a system that multiplexes user data cells with control data cells (col. 3, lines 3-6). The cell multiplexer (102) is comprised of a selector (204) which normally selects the regular cell stream, but if an idle detection signal is detected from idle cell detector (101), control cells are multiplexed into the stream to form the CSmux stream (col. 3, line 66 – col. 4, line 5). In this way, the device operates in essentially two modes, regular cell stream, and

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CSmux cell stream. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to provide the ATM transmission system of Noiri with the feature of operating in two modes, one that contains regular user cells, and one that contains control signal cells as well. One of ordinary skill in the art would have been motivated to do this so that system flexibility is maintained while still obtaining the benefit of reducing the number of lines needed for the system.

Allowable Subject Matter

9. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject matter:

- The prior art fails to disclose an RS/CD signal that is extended for a predetermined period of time before it is multiplexed.

Conclusion

11. Any inquiry concerning this communication, or earlier communications from the examiner should be directed to Thomas Volper whose telephone number is 703-305-8405 and fax number is 703-746-9467. The examiner can normally be reached between 9:00am and 6:30pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo, can be reached at 703-305-4798. Any inquiry of a general nature or

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relating to the status of this application or proceeding should be directed to the receptionist
whose telephone number is 703-305-4750.

tev

March 7, 2003



RICKY NGO
PRIMARY EXAMINER